

Tuesday, 12/6/2005 11:13:37 AM Kim Johnston

## Process Sheet

1	11000	33 Oncot		
Customer	: CU-DAR001 Dart Helicopters Services	<b>Drawing Name</b>	: BLADE FITTING	
Job Number	: 25111 -2			
Estimate Number	: 10019			
P.O. Number	: MA	Part Number	: D27421	
This Issue	: 12/6/2005 S.O. No. : N/A	<b>Drawing Number</b>	: D2742 REV B1	
Prsht Rev.	: NC	Project Number	: N/A	
First Issue	: 12/6/2005 Type : MACHINED PARTS	<b>Drawing Revision</b>	: B1	25
Previous Run		Material	: N/A : 1/15/2006 Qty:	12 Um: Each
Written By	: SEE COMMENT BELOW	Due Date	: 1/15/2006 Qty	/2 UIII. Laci
Checked & Approv		TE		
Comment	: Est Rev:H Removed P/0 For Material 05-10-26	3 JLM	- Warrant and a second	
Additional Product	_			
		žn.		
lak Number	110000 1000 1000 1000 1000 1000 1000		***************************************	
Job Number:				9
				<u> </u>
Seq. #:	Machine Or Operation:	Description :		
1.0	D6103001 7075-T65	1 3.25OD x 12.5L	111111111111111111111111111111111111111	T .
			.	
Comme	ent: Qty.: 1.0000 Each(s)/Unit Total: 12.0000 Ea	ch(s)		
	7075-T651 3.25OD x 12.5L			
	(D6103-001 BLANK) 2/5/10 /21/160			127
	Batch: 25069 24640			%.
2.0	MORI SEIKI MORI SE	IKI CNC LATHE LARGE	¥	
		~ .		7
	Issue P.O	378 4	Jura gulla	perday.
Comme	ent: MORI SEIKLONG LATHELARGE OGALL	il + Inspec		•
0.6	TURNAS PER FOLIO FA099 & DSK050 KBLEL	a 4 suspec		
44	FOLIO REV:			
	DWG REV:	· (La	101130	25
3.0		PARTS AS THEY COME	OFF MACHINE	
		206		
				1/02.02.01.
Comme	ent: INSPECT PARTS AS THEY COME OFF MACHINE			
4.0	September 1997 And Annual Control of the Annual Ann	C VERTICAL MACHINING	G #1	/
Comme	ent: HAAS CNC VERTICAL MACHINING #1		136810540013181381	
Colline	1-MACHINE AS PER FOLIO FA099 & DWG D2742			
	FOLIO REV: B	E 8.1		2
		99/		
	DWG REV: 13	/	7.7	
	2 DEDUDD & TUMBER		Oblor 66	
	2-DEBURR & TUMBLE		0100	

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**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: BLADE FITTING

Job Number: 25111

Part Number: D27421

Job Number:



Machine Or Operation: Seq. #:

Description:

5.0

INSPECT PARTS AS THEY COME OFF MACHINE

Comment: INSPECT PARTS AS THEY COME OFF MACHINE

6.0

SECOND CHECK



Comment: SECOND CHECK

7.0

HAND FINISHING1

HAND FINISHING RESOURCE #



Comment: HAND FINISHING RESOURCE #1

1-Chemical Conversion Coat as per QSI 005 4.1

06:04-17



2-Powder Coat White (Ref. 4.3.5.2) as per QSI 005 4.3

INSPECT POWDER COAT/CHEMICAL CONVERSION

QC3 8.0



Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

ALS41032225



Comment: Qty.:

4.0000 Each(s)/Unit Total: 48.0000 Each(s)

Pick:

Qty

Description

Part Number ALS4-1032-225

AKS4-1032-225

ALS7-1032-225

M18293

AKS7-1032-225

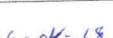
10.0

HAND FINISHING

HAND FINISHING RESOURCE #1



Comment: HAND FINISHING RESOURCE #1 Install ALS4-1032-225 Insert as per Dwg D2742



11.0

INSPECT WORK TO CURRENT STEP

QC5



Comment: INSPECT WORK TO CURRENT STEP



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**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: BLADE FITTING

Job Number: 25111

Part Number: D27421

Job Number:



Seq. #:

Machine Or Operation:

Description:

12.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

Job Completion



Dart Aerospace Lt	d
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W/O:		WORK ORDER C	HANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							CAU

Part No:	PAR #:	Fault Category:	NCR: Yes No DQ	A: 2 [	Date: 06/04/19
			QA: N/C Close		Date:

NCR:		W	ORK OF	RDER NON-CONFORMANC	E (NCR)			
DATE	STEP	Description of NC		Corrective Action Section B				
	OILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
odorlos	4	one Blaze Pitinghas a dim of 0.972". nstead on dim 1.000". Pant Didn't sit properly in	P 06.02.19		EP OSTURIOR	Tuu!17	Per 8/14	204.17
obolob	\$2.0	Doc hero, 046" Dep challe Mondes. Done @ metre		Scron /cle, bry. Not. fy Meter of the Chatter marks for possible credit.	En solorido	06.07.06	O6 05:142	100,006
NOTE: Dat	e & initial	all entries						

**Chris Provencal** David Shepherd [davids@dartaero.com] From: February 16, 2006 4:46 PM Sent: Chris Provencal To: Re: D2742-1 Blade Fitting NCR Subject: Based on your analysis, the parts with a 0.970" thickness are acceptable. David ---- Original Message -----From: "Chris Provencal" <cprovencal@dartaero.com> To: "'David Shepherd'" <davids@dartaero.com> Sent: Thursday, February 16, 2006 1:30 PM Subject: RE: D2742-1 Blade Fitting NCR > Dart > Mu = 81000 \* 0.210 / 0.458 = 37140> My = 71000 \* 0.210 / 0.458 = 32555> Mu = 66500 \* 0.231 / 0.471 = 32615> My = 61300 \* 0.231 / 0.471 = 30064> ----Original Message-----> From: David Shepherd [mailto:davids@dartaero.com] > Sent: February 16, 2006 2:44 PM > To: Chris Provencal > Subject: Re: D2742-1 Blade Fitting NCR > Chris, > Can you give me these numbers in terms of Mu = Ftu x I/c and My = Fty x > comparing the modified Dart to the Eurocopter. > Thanks, > David > ---- Original Message -----> From: "Chris Provencal" <cprovencal@dartaero.com> > To: <davids@dartaero.com> > Sent: Thursday, February 16, 2006 12:25 PM > Subject: RE: D2742-1 Blade Fitting NCR > > From solidworks, the inertia of the nominal blade fitting is 0.231. With > > 0.970" thickness it reduces to 0.210. > > > > From SR-D350-636, the dart blade fitting has a FTu=81000 \*0.210/230 = > 73956, > > which is still larger than the Eurocopter Ftu = 66500. The dart blade

1

> > fitting has Fty = 71000 \*0.210/0.230 = 64826, which is still larger

than

> > the Eurcopter Fty = 61300.

> > Therefore I think it is acceptable.

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> > Chris
> >
>> ----Original Message----
> > From: Chris Provencal [mailto:cprovencal@dartaero.com]
> > Sent: February 15, 2006 8:58 AM
> > To: 'davids@dartaero.com'
> > Subject: D2742-1 Blade Fitting
> > Dave, the D2742-1 Blade Fitting, the part with the two holes (where the
> > stinger attaches to) should be 1.000" thick, on one it is 0.970" thick.
> > Sincerely,
> > Chris Provencal
> > DART Aerospace Ltd.
> > Email..cprovencal@dartaero.com
> > Phone...613-632-3336
> > Fax......613-632-4443
> >
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